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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,391	09/05/2003	Shahab M. Sayeedi	CE10336R	9575
22917	7590	06/19/2007		
MOTOROLA, INC. 1303 EAST ALGONQUIN ROAD IL01/3RD SCHAUMBURG, IL 60196			EXAMINER PHAN, MAN U	
			ART UNIT 2616	PAPER NUMBER
			NOTIFICATION DATE 06/19/2007	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Docketing.Schaumburg@motorola.com
APT099@motorola.com

Office Action Summary

Application No.

10/656,391

Applicant(s)

SAYÉEDI, SHAHAB M.

Examiner

Man Phan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-8, 10, 11 is/are rejected.
- 7) ☒ Claim(s) 5 and 9 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application
- ☐ Other: _____

DETAILED ACTION

1. The application of Sayeedi for a "Method of supporting reactivation of a dormant session using stored service configurations" filed 09/05/2003 has been examined. This application claims priority from provisional application 60/408,576 filed 09/06/2002. Claims 1-11 are pending in the present application.

2. The applicant should use this period for response to thoroughly and very closely proof read and review the whole of the application for correct correlation between reference numerals in the textual portion of the Specification and Drawings along with any minor spelling errors, general typographical errors, accuracy, assurance of proper use for Trademarks TM, and other legal symbols @, where required, and clarity of meaning in the Specification, Drawings, and specifically the claims (i.e., provide proper antecedent basis for "the" and "said" within each claim). Minor typographical errors could render a Patent unenforceable and so the applicant is strongly encouraged to aid in this endeavor.

Claim Rejections - 35 USC ' 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 2 recites limitation "the mobile station" in line 1,

Claim 6 recites limitation "the mobile station" in line 3,

Claim 7 recites limitation "the PCF" in line 2,

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Claim 9 recites limitation "the mobile station" in line 3,

There is insufficient antecedent basis for these limitations in the claims.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention Was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-2, 6-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Madour et al (US#6,912,214).

With respect to claims 1-2, 6-7, Madour et al. (US#6,912,214) and Ho et al. (2003/0143989) disclose a novel system and method for supporting reactivation of service instances in a dormant packet data session, according to the essential features of the claims. Madour discloses in Fig. 2 a signaling diagram illustrating the flow of messages between nodes in the wireless access network of Fig. 1 when a mobile station powers down during a dormant packet-data session, in which at step 26, the BSC triggers an A9-Update-A8 message to the PCF containing an identifier of the MS (MSID) and the UpdateReason parameter set to "MS Power Down"(A9-Update-A8 message to the PCF instructing it to release the associated packet-data resources). At 27, the PCF uses the MSID received in the A9-Update-A8 message to find the corresponding A10 connection. The PCF starts releasing the A10 connection by sending an A11 Registration Request. Thus, the PCF sends an A11 Registration Request message to the PDSN

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with lifetime set to zero (0)(*receiving stored service configuration information from a PCF*).

The PDSN releases the A10 connection as well as the active PPP connection, and a Registration Reply is returned to the PCF containing lifetime=0. At step 28, the PCF returns an A9-Update-A8 Acknowledgment message back to the BSC (*dormant packet-data session is reactivated by reallocating a traffic channel so that the data can be transferred*) (See also Figs. 4 & 9; Col. 5, lines 55 plus and Col. 6, lines 40 plus and Col. 10, lines 35 plus).

As is well known to those skilled in the art, a mobile station that maintains dormant packet data sessions initiates a "dormant handoff" of those packet data sessions when it moves to a coverage area (or "packet zone") that is controlled by another base station controller (BSC). In such an event, the mobile station alerts the network of its new situation, so that a connection from PDSN to the wireless network may be moved to the proper PCF 150. It's also noted that, a dormant packet-data session is one in which a packet-data session has been established, but no data has been exchanged for a long period of time. Under these circumstances, when an inactivity timer expires, the MSC deallocates the radio traffic channel. The PPP connection, however, is maintained. If the user then requests or sends additional data, the dormant packet-data session is reactivated by reallocating a traffic channel so that the data can be transferred.

Claim Rejections - 35 USC ' 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention

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was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 3-4 and 8, 10, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Madour et al. (US#6,912,214) in view of Ho et al. (US#2003/0143989).

With respect to claims 3, 4, 8, 10, Madour et al. (US#6,912,214) in view of Ho et al. (US#2003/0143989) disclose a novel system and method for supporting reactivation of service instances in a dormant packet data session, according to the essential features of the claims. Madour discloses in Fig. 9 method and access network for an improved inter-PDSN (Packet Data Serving Node) dormant mode handoff (performs an intra-BSC/intra-PCF/inter-PDSN dormant handoff)(refer to paragraph 0016); comprising: exchanging, by an Access Network (AN) with a target PDSN, signaling to support an inter-PDSN handoff of a packet data session of a mobile station (MS), (refer to At step 125, of fig. 9, the MS performs an inter-PDSN dormant handoff). At 126, the packet-data session is reactivated due to the sending of agent advertisements and PPP re-negotiation. The reactivation includes the establishment of an SCCP connection 14 between the MSC 11 and the BSC 12. At 127 (*dormant packet-data session is reactivated by reallocating a traffic channel so that the data can be transferred*), the MSC sends a Clear command to the BSC using the SCCP connection (Col. 10, lines 35 plus). Madour further teaches Fig. 2 a signaling diagram illustrating the flow of messages between nodes in the wireless access network of Fig. 1 when a mobile station powers down during a dormant packet-data session, in which at step 26, the BSC triggers an A9-Update-A8 message to the PCF containing an identifier of the MS (MSID) and the UpdateReason parameter set to "MS Power Down"(*A9-Update-A8 message to the PCF instructing it to release the associated packet-data resources*). At 27, the PCF uses

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the MSID received in the A9-Update-A8 message to find the corresponding A10 connection. The PCF starts releasing the A10 connection by sending an A11 Registration Request. Thus, the PCF sends an A11 Registration Request message to the PDSN with lifetime set to zero (0)(*receiving stored service configuration information from a PCF*). The PDSN releases the A10 connection as well as the active PPP connection, and a Registration Reply is returned to the PCF containing lifetime=0. At step 28, the PCF returns an A9-Update-A8 Acknowledgment message back to the BSC (*dormant packet-data session is reactivated by reallocating a traffic channel so that the data can be transferred*) (See also Figs. 4 & 9; Col. 5, lines 55 plus and Col. 6, lines 40 plus and Col. 10, lines 35 plus).

However, Madour et al. (US#6,912,214) does not disclose expressly the step of receiving a SYNC_ID from a mobile station and wherein the SYNC_ID corresponds to the stored service configuration information. In the same field of endeavor, Ho et al. (US#2003/0143989) teaches in Fig. 3 a flow diagram illustrated the stored service parameter synchronization, in which Steps 370-395 indicate one embodiment of re-establishing synchronized stored service parameters. While these steps are carried out, the mobile station 106 may be in either the system access state, the traffic state, or in transition between the two. The details of state transition will be specified by whichever standard is adhered to, and do not limit the scope of the present invention. In step 370, the mobile station 106 sends the CRC as a SYNC_ID to the base station 104. In step 380, the base station 104 compares the received SYNC_ID with the CRC stored in the base station 104. If there is a match, in decision block 385, proceed to step 390 and use the stored configuration for the communication session, which begins when the mobile station 106 transitions back to the traffic state 340 ([0026]). Release A

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of the cdma2000 standard provides for a procedure to minimize the time spent in call setup when parameters have been previously negotiated. A mobile station can store the mutually agreed to service configuration when it releases all dedicated channels and returns to the idle state. A mobile station may then attempt to reestablish a connection, whether initiating a new voice call or re-connecting a dormant data communication session. The mobile station sends an indication to the base station that a configuration has been stored and may still be useful for the new session. The mobile station sends an identifier for identifying the stored configuration, known in the cdma2000 standard as SYNC_ID. The SYNC_ID can be transmitted in an Origination Message, for a mobile station originated call, or a Page Response Message, for a mobile station terminated call. In response, the base station may instruct the mobile station, via a Service Connect Message, after dedicated channels have been established, that the mobile station should use the stored configuration. If so, the need for performing service negotiation is eliminated and the call setup time is reduced ([0005]).

One skilled in the art would have recognized the need for effectively and efficiently reactivation of service instances in a dormant session using the stored service configuration, and would have applied Ho's techniques for synchronization of stored service parameters into Madour's novel use of the dormant packet data session in supporting reactivation services. Therefore, It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to apply Ho's synchronization of stored service parameters in a communication system into Madour's optimized packet resource management with the motivation being to provide a method of supporting reactivation of a dormant session using stored service configurations.

Allowable Subject Matter

8. Claims 5, 9 are objected to as being dependent upon the rejected base claims, but would be allowable if rewritten in independent form including all of the limitations of the base claims and any intervening claims.

9. The following is an examiner's statement of reasons for the indication of allowable subject matter: The closest prior art of record fails to disclose or suggest wherein before receiving a SYNC_ID from a mobile station, the method comprises assigning a SYNC_ID corresponding to a current service configuration of the mobile station for the session; and sending the SYNC_ID and the corresponding service configuration to a packet control function, as specifically recited in the claims.

10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Choi et al. (US#6959,190) discloses a method for performing a fast intra-PDSN soft handoff.

Madour et al. (US#2005/0195787) discloses an optimized packet resource management.

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Madour et al. (US#2003/0053431) discloses a method for performing handoff in a radio telecommunications network.

Chen et al. (US#2003/0157945) discloses a method and apparatus for delivering server-originated information during a dormant packet data session.

Julka et al. (US#2004/0203780) discloses a forced registration in concurrent services mobile station handoff.

Sinnarajah et al. (US#7,180,879) discloses a method and apparatus for call setup latency reduction.

Sinnarajah et al. (US#6,952,411) discloses a method and apparatus for call setup latency reduction.

Ho et al. (US#2005/0130707) discloses a synchronization of stored service parameters in communication system.

Duncan Ho et al. (US#2005/0130708) discloses a synchronization of stored service parameters in communication system.

Janevski et al. (US#2004/0008645) discloses an efficient handoffs between cellular and wireless LANs.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Phan whose telephone number is (571) 272-3149. The examiner can normally be reached on Mon - Fri from 6:00 to 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin, can be reached on (571) 272-3134. The fax phone number for the

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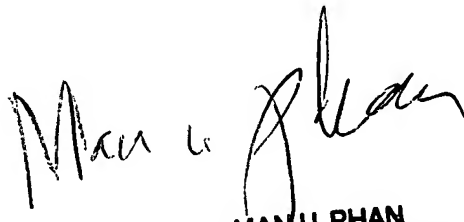
organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at toll free 1-866-217-9197.

Mphan

06/12/2007.


MAN U. PHAN
PRIMARY EXAMINER